

October 13, 1952

Dear Dr. Kauffmann:

Thank you for your letter of the 11th.

I appreciate your suggestion of the desirability of hybrid types constructed to carry rare O antigens. Unfortunately, for the present, we are able only to work with cultures in groups B and D, carrying the XII₂ component. Our current investigations are designed to extend the scope of the "hybridizations" to the other groups. When and if this is achieved, I will be pleased to be able to consult you for further developments.

After reading Edwards' 1946 paper, I realize that monophasic strains have been isolated for most of the major H complexes, excepting r. I have recently constructed a hybrid from monophasic *S. paratyphi* B x *S. heidelberg* which should be r—. If the r phase does prove to be monophasic as expected, and not r-1,2 like *S. heidelberg*, this strain may be useful.

I am expecting to visit Chamblee in a few months to learn some more of the Praktik of *Salmonella* diagnosis from Edwards. In the meantime, I shall be concentrating on extending the theoretical foundations of the genetic "transduction". I am most gratified at your interest in this work, and will endeavor to keep you fully informed of it.

Yours sincerely
